challenge xtreme

High Pressure Washer User's Manual

Model YLQ16S-150A

Original instructions

Warning: Do not use machine without reading the instruction sheet

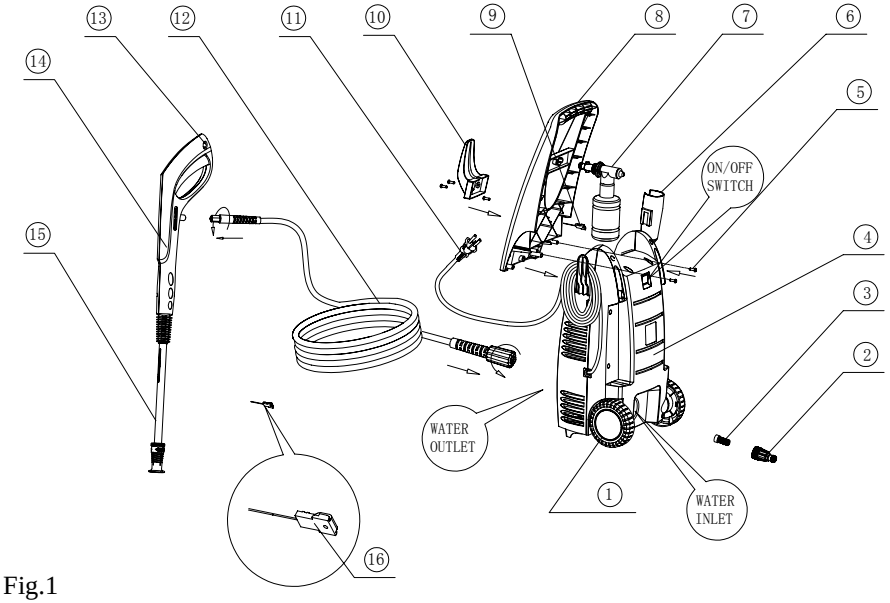


Fig.1

Fig.2

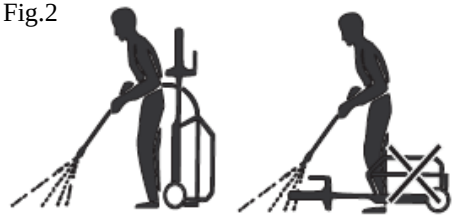


Fig.3

Fig.4

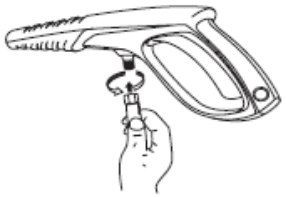


Fig.5

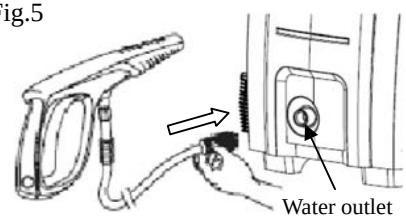
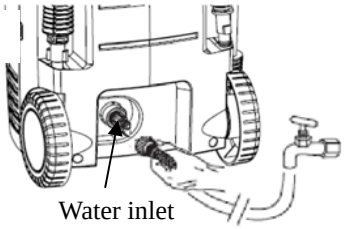


Fig.6



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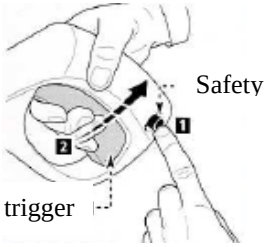


Fig.8

Fig.9

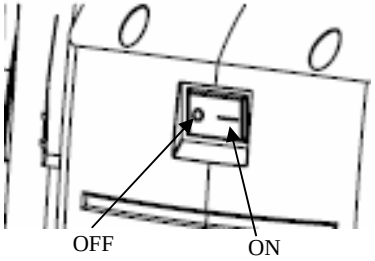


Fig. 10

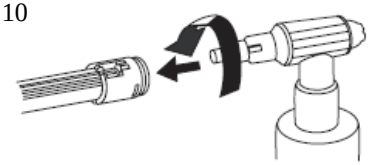


Fig.11

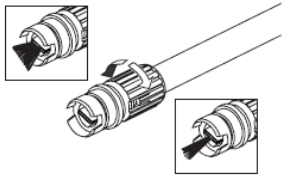


Fig.12

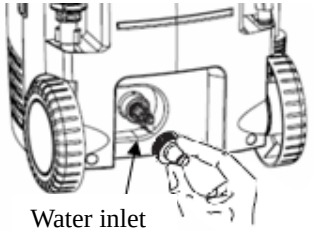


Fig.13

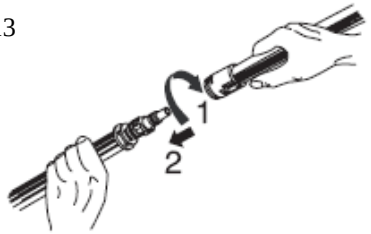


Fig.14

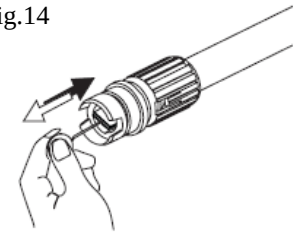


Fig.15

Fig.16

1. Technical data

Rated voltage:	AC220 – 240V , 50Hz
Rated input power:	1800W
Protection class	II
Degree of protection:	IPX5
Rated pressure:	90Bar(9Mpa)
Max. pressure:	135Bar(13.5Mpa)
Rated flow:	6 l/min
Max. flow:	7l/min
Supply hose length	5 metre
Power cord length	5 metre
Rated temperature:	0-40℃
Max. inlet pressure:	0.7MPa
Sound pressure level: Uncertainty:	LpA=77 dB(A) KPA=3dB
Sound power level: Uncertainty:	LwA=96dB (A)
Vibration value	α h=1.8m/s^2 K$_{\alpha h}$=0.05m/s^2
Weight:	9.5 Kg

2. Accessories

1、	Trigger gun
2、	lance
3、	Nozzle Cleaning Needle
4、	Water Inlet Connector
5、	High Pressure Hose
6、	Detergent tank

3. SYMBOLS USED TO MARK INSTRUCTIONS

Some of the following symbols may be used on this product. Please study them and learn their meaning for safe operation.

SYMBOL	NAME	EXPLANATION
	Read instruction	Before starting up your high pressure washer for the first time, this instruction manual must be read through carefully. Save the instructions for later use.
	Safety Alert	Safety instructions marked with this symbol must be observed to prevent danger to persons.
	Safety mark	This symbol is used to mark safety instructions that must be observed to prevent damage to the machine and its performance.
	Indication mark	This symbol indicates tips and instructions to simplify work and to ensure a safe operation.
	Waste products disposal	Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.
	Eye Protection	Always wear safety goggles or safety glasses with side shields or a full face shield when operating this product.
	Class II Construction	Double-insulated construction.
	keep Bystanders Away	To reduce the risk of injury, user must keep all bystanders at least 15m away.
	Electric Shock Precaution	Remove plug from the mains immediately if cable is damaged or cut.
	Sound power level	Sound power level is 96dB(A)
	Electrical shock hazard	Electrical shock hazard
		Machine not suitable for connection to the potable water mains

4. IMPORTANT SAFETY INSTRUCTIONS

WARNING!

This appliance is not intended for use by children or other persons without assistance or supervision if their physical, sensory or mental capabilities prevent them from using it safely. Children should be supervised to ensure that they do not play with the appliance.

Before starting up your machine please check it carefully for any defects. If you find any, do not start up your machine and contact your distributor.

Especially check:

- The insulation of the power cord should be faultless and without any cracks. If the power cord is damaged, an authorized distributor should replace it.

WARNING!

Warning: Do not use this appliance without reading this instruction sheets.

- If the supply cord is damaged it must be replaced by a qualified person in order to avoid hazard.
- The Electric supply to this appliance should include either a residual current device that will interrupt the supply if the leakage current to earth exceeds 30 mA for 30 ms or a device that will prove the earth circuit.
- **WARNING**: This appliance has been designed for use with the cleaning agent supplied or recommended by the manufacturer. The use of other cleaning agents or chemicals may adversely affect the safety of the appliance.
- **WARNING**: Do not use the appliance within range of persons unless they wear protective clothing.
- **WARNING**: High pressure jets can be dangerous if subject to misuse. The jet must not be directed at persons, live electrical equipment or the appliance itself.
- Do not direct the jet against yourself or others in order to clean clothes or foot-wear.
- Risk of explosion – Do not spray flammable liquids.
- Disconnect from the electrical power supply before carrying out **user maintenance** .
- High pressure cleaners shall not be used by children or untrained personnel.
- To ensure appliance safety, use only original spare parts from the manufacturer or approved by the manufacturer.
- **WARNING**: Water that has flown through backflow preventers is considered to be non-potable.
- **WARNING**: The machine shall be disconnected from its power source during cleaning or maintenance and when replacing parts for mains operated machines by removing the plug from the socket-outlet;
- **WARNING**: High pressure hoses, fittings and couplings are important for safety of the

appliance. Use only hoses, fittings and couplings recommended by the manufacturer.

- Do not use the appliance if a **supply cord** or important parts of the appliance are damaged, e.g. safety devices, high pressure hoses, **trigger gun**.

- **WARNING**: If an extension cord is used, the plug and socket must be of watertight construction.

- **WARNING**: Inadequate extension cords can be dangerous.

- This high pressure washer must not be used at temperatures below 0°C.

WARNING!

- Cord on drums should always be completely extended to prevent the cord from overheating.

- If an extension cord is used, the plug and socket must be of watertight construction.

- Inadequate extension cords can be dangerous.

- Power cord connections should be kept dry and off the ground.

- If the power cord is damaged, it must be replaced by the manufacturer or his service agent or similarly qualified person in order to avoid a hazard.

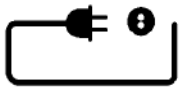
- Always ensure the machine is on a flat level surface and is stable. Never tip the machine on one side.

In the event of accident or breakdown, switch off the machine immediately. (e.g. contact with detergent: rinse with an abundance of clean water)

WARNING! ELECTRICAL SHOCK HAZARD

To reduce the risk of electrocution, you keep all connections dry and off the ground. You do not touch the plug with wet hands. The electric supply connection shall be made by a qualified electrician and comply with IEC 60364-1.

Mains power connection



The following should be observed when connecting the high pressure washer to the electric installation:

- The electric installation shall be made by a certified electrician and comply with IEC-364.
- It is recommended that the electric supply to this appliance should include either a residual current device that will interrupt the supply if the leakage current to earth exceeds 30 mA for 30 ms.

IMPORTANT! Only use water without any impurities.

- The water inlet fi lter must be inspected regularly, so as to avoid blockage and restriction in the water supply to the pump.

Safety devices

- The pressure washer is equipped with an auto stop device. When the trigger is released it will open the power circuit to the motor and cause the pressure washer motor to stop.

Thermal sensor:

- A thermal sensor protects the motor against overloading. The machine will restart after a few minutes when the thermal sensor has cooled.

5. NAME OF PARTS: (FIG. 1)

1. Wheel	5. Screw	9. Support of hose	13. Spray Handle
2. Water Inlet Connector	6. Support of lance	10. Plug/cable	14. Lance
3.Filter	7. Bottle Assembly	11. High Pressure Hose	15.Nozzle Cleaning Needle
4.Housing	8. Handle	12. Safety lock	

6. PRODUCT DESCRIPTION

PURPOSE

- The high pressure cleaner is designed to clean vehicles, machines, buildings, facades, etc. in the private sector.

AREAS OF APPLICATION

- Never use the machine in potentially explosive areas under any circumstances!
- The operating temperature must be between 0 and +40℃.
- The machine consists of an assembly with a pump, which is encased in a shock absorbing housing. For an optimal working position the machine comes with a lance and a non-slip handle grip, whose shape and configuration comply with the applicable regulations.
- Do not cover or modify the lance or the spray nozzles in any way.
- The high pressure cleaner is designed to be used with cold or lukewarm (max. 60℃); higher temperatures can damage the pump.
- Do not use water that is dirty, gritty or contains any chemical products, as these could impair operation and shorten the life of the machine.
- Accessories can be used to carry out work with foam cleaners, sand spraying.

7. ASSEMBLY

- Position the washer as **NEAR** as possible to the water supply.
- Always ensure the machine is on a flat level surface and is stable. Never tip the machine on one side. FIG.2.
- Fit the lance into the gun and rotating it until the two parts are completely locked FIG. 3.
- Connect the gun to the high pressure hose FIG.4.
- Connect the high pressure hose to the water outlet on the washer FIG. 5.
- Connect the water supply hose to female coupler FIG.6, then connect to the water inlet of the washer. The supply hose must have an internal diameter of at least 13mm (1/2 in.) and must be reinforced. The water supply must be at least equal to the washer delivery capacity.

- **NOTE: The machine not suitable for connection to the potable water main (FIG. 16).**

WARNING

The intake water temperature must not exceed 40℃. The water supply must not exceed 0.7 MPa.

CAUTION
The washer must only be used with clean water; use of unfiltered water of corrosive chemicals will damage the washer.

- Push the motor switch to “OFF” position FIG. 9.
- Check that the electrical supply voltage and frequency (Volt/Hz) correspond to those specified on the washer rating plate. If the power supply if correct, you may now plug in the washer.

8. OPERATION

- Turn on the water supply tap fully.
- **Release the safety lock FIG.7 and FIG. 8, then press the trigger for a few seconds to allow air to escape and to discharge residual pressure in the hose.**
- Keeping the trigger pressed, push the switch to start the motor FIG.9.
- **When re-starting the motor, always keep the trigger pressed.**

NOTE:
THE MOTOR ONLY RUNS WHEN THE TRIGGER IS OPERATED.

USE DETERGENT

- Fill the detergent tank to the level indicated through the inlet FIG. 10.

CORRECT USE OF STANDARD ACCESSORIES

- The washer is equipped with the adjustable nozzle.
- Jet adjustment from pencil to fan FIG. 11.

WARNING: DO NOT ADJUST THE NOZZLE WHILE THE TRIGGER IS SQUEEZED.

CORRECT USE OF TURBO NOZZLE

- For increasing washing power, use the turbo nozzle kit as follows:
- Turn off the high pressure washer.
- Unscrew the adjustable head and fit the turbo nozzle onto the lance.
- Turn the high pressure washer back on.

RECOMMENDED CLEANING PROCEDURE

- Dissolve dirt by applying detergent with the fan jet to the dry surface. On vertical surfaces, work from the bottom upwards. Leave the detergent to act for 1 to 2 minutes, but do not allow to dry out. Apply the high from the surface, working from the bottom upwards.
- Avoid allowing the rinsing water to run on to unwanted surfaces.

STORAGE (FIG.12 – FIG. 15)

- Switch off the washer.
- Turn off the water supply tap.
- After use, the detergent residuals should be removed from the tank.
- Discharge residual pressure by pressing the trigger until no more water comes out of the lance nozzle.
- Engage the gun safety lock.
- Remove the plug from the socket.
- Operate the washer with non-corrosive/ non-toxic antifreeze before storing for the winter.

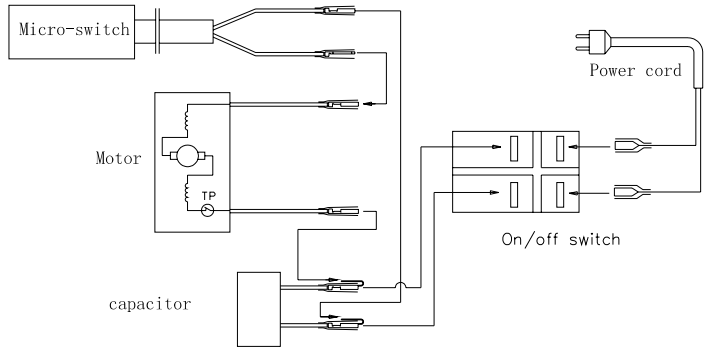
WARNING:BEFORE REUSING, COMPLETELY FLUSH THE UNIT OUT WITH PLAIN WATER. ANTI-FREEZE CAN DAMAGE PAINTWORK SO YOU MUST ENSURE THERE IS NO ANTI-FREEZE LEFT IN THE SYSTEM BEFORE USING IT AGAIN.

9. MAINTENANCE

CAUTION
Before working on the washer, disconnect the plug from the power supply socket.

- To ensure good performance, check and clean the suction and detergent filters after every 50 hours of operation FIG. 12.
- Clean the nozzle with the tool provided. Remove the lance from the gun, FIG. 13, remove any dirt from the nozzle hole (FIG. 14) and rinse.

10. Circuit Diagram



11. DISPOSAL

Recycling the washer

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.
Contact you local government for information regarding the collection systems available.
If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.
When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposals at least free of charge.

12. TROUBLE-SHOOTING

Disconnect from the electrical power supply before carrying out user maintenance or checking its correct functioning.

To avoid unnecessary disappointments, you should check the following before contacting the service organization:

Symptom	Cause	Recommended action
Machine refuses to start	Machine not plugged in Defective socket Fuse has blown Defective extension cord	Plug in machine Try another socket. Replace fuse. Switch off other machines. Try without the extension cord.
Fluctuating pressure	Pump sucking air Valves dirty, worn out or stuck Pump seals worn out	Check that hoses and connections are airtight. Clean and replace or refer to local distributor Clean and replace or refer to local distributor
Machine stops	Fuse has blown Incorrect mains voltage Thermal sensor activated Nozzle partially blocked	Replace fuse. Switch off other machines. Check that the mains voltage corresponds to specification on the model tag. Leave the washer for 5 minutes to cool down. Clean the nozzle
Fuse blows	Fuse too small	Change to an installation higher than the amp. consumption of the machine. You may try without the extension cord.
Machine pulsating	Air in inlet hose Inadequate supply of mains water Nozzle partially blocked Water filter blocked Hose kinked	Allow machine to run with open trigger until regular working pressure resumes. Check that the water supply corresponds to specifications required **NB!** Avoid using long, thin hoses (min. 1/2") Clean the nozzle Clean the filter Straighten out hose.
Machine often starts and stops by itself	Pump/spray gun is leaking Centre.	Contact your nearest Service
Machine starts, but no water comes out	Pump/hoses or accessory frozen No water supply Water filter blocked Nozzle blocked	Wait for pump/hoses or accessory to thaw. Connect inlet water. Clean the filter Clean the nozzle

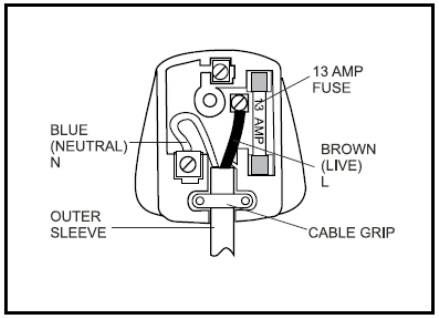
In case problems other than the above occur, please contact your local distributor.

PLUG FITTING

Note: If a moulded plug is fitted and has to be removed take great care in disposing of the plug and severed cable, it must be destroyed to prevent engaging into a socket. If the supply cord is damaged it must be replaced by a qualified person in order to avoid hazard. Your pressure washer is supplied with a fitted plug, however if you should need to fit a new plug follow the instruction below. If in doubt consult a qualified electrician.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:
Blue - Neutral, Brown – Live. As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured blue must be connected to the terminal which is marked with N. The wire which is coloured brown must be connected to the terminal which is marked with the letter L. No connection is to be made to the earth terminal of the plug. If a 13 AMP (BS 1363/A) plug is used, a 13 AMP fuse must be fitted, or if any other type of plug is used a 13 AMP fuse must be fitted, either in the plug, or adaptor or on the distribution board.



13. WARRANTY SERVICE

1. This Product has been manufactured to a high quality standard. The warranty period is 12 month from date of purchasing.
2. For warranty service, please contact the present the warranty card and the original invoice for the warranty service.
3. This warranty DOES NOT apply to:
   - O-rings, seals, valves, nozzles, filters.
   - Damages to high pressure hose, gun, pump, motor, housing shells due to misuse, operation errors, or exposure to natural elements.
   - Transportation damages after sales.
   - Services not provided by our authorized service centers.
   - Accessories and spare parts, if any, provided in the package.
   - Damage resulted from commercial or industrial use, as this product is intended for DIY use only.

SAVE THESE INSTRUCTIONS